

PATENT  
Serial No. 10/500,620  
Amendment in Reply to Office Action mailed on June 5, 2006

REMARKS

This Amendment is being filed in response to the Office Action mailed June 5, 2006, which has been reviewed and carefully considered. Reconsideration and allowance of the present application in view of the following remarks and arguments are respectfully requested.

By means of the present amendment, the current Abstract has been deleted and substituted with the enclosed New Abstract which better conforms to U.S. practice. Further, the specification has been amended to correct an informality.

By means of the present amendment, claims 1-14 have been amended for better clarity including beginning the independent claims with 'A', beginning the dependent claims with 'The', changing "characterized in that" to --wherein--, and deleting reference numerals typically used in European practice that are known to not limit the scope of the claims. Claims 1-14 were not amended in order to address issues of patentability and Applicant respectfully reserves all rights under the Doctrine of Equivalents.

In the Office Action, the Examiner indicated that claim 5

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would be allowable if rewritten in independent form. Applicant gratefully acknowledges the indication that claim 5 contains allowable subject matter. By means of the present amendment, claim 5 has been rewritten in independent form, without including features of intervening claims that are believed to be not necessary for patentability. Further, independent claims 8-14 have been amended to include the features of allowable claim 5. Accordingly, it is respectfully requested that independent claims 5 and 8-14 be allowed. In additions, claims 16-20 should be allowable at least based on their dependence from independent claims 8-9 and 11-13.

In the Office Action, claims 1-4 and 6-14 are rejected under 35 U.S.C. §103(a) as allegedly unpatentable over U.S. Patent No. 6,466,803 (Gardner) in view of U.S. Patent No. 5,423,076 (Westergren). It is respectfully submitted that claims 1-7 and 15 are patentable over Gardner and Westergren for at least the following reasons.

Gardner is directed to a system for synchronizing a second receive chain relative to a first receive chain. As shown in FIG 3, the Gardner system includes two transmit chains 48, 50 and two

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receive chains 44, 46 which may be replaced by a single transmit chain and a single receive chain. An oscillator 60 provides a signal to a frequency synthesizer 62 connected to the first transmit and receive chains 44, 48, with a similar oscillator 68 and frequency synthesizer 62 for the second transmit and receive chains 44, 48. As recited on column 9, lines 27-30, the oscillators 60, 68 may be replaced by a combination of tunable phase locked loops (PLLs) and/or direct digital synthesizers (DDSs).

As correctly noted by the Examiner, Gardner does not teach or suggest that the digital synthesizer driven phase locked loop, in a transmitting mode, is in a modulating state, and in a receiving mode, is in an oscillating state. Westergren is cited in an attempt to remedy the deficiencies in Gardner.

Westergren is directed to a transceiver which operate in separate transmit and receive bands. As shown in FIG 1, the Westergren includes two PLLs 38, 57. Column 4, lines 12-66 and column 10, lines 38-43 of Westergren are cited to allegedly show the above noted features.

It is respectfully submitted that Gardner, Westergren, and

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combination thereof, do not teach or suggest the present invention as recited in independent claim 1, which, amongst other patentable features, requires (illustrative emphasis provided):

said digital synthesizer driven phase locked loop, in said receiving mode, being in an oscillating state and receiving a non-modulation signal including at least one of a dc-voltage and a ground voltage.

Receiving a dc-voltage or a ground voltage in the receiving mode is nowhere taught or suggested in Gardner and Westergren, alone or in combination. Accordingly, it is respectfully submitted that independent claim 1 should be allowable. In additions, claims 2-7 and 15 should be allowable at least based on their dependence from independent claim 1.

In addition, Applicant denies any statement, position or averment of the Examiner that is not specifically addressed by the foregoing argument and response. Any rejections and/or points of argument not addressed would appear to be moot in view of the presented remarks. However, the Applicant reserves the right to submit further arguments in support of the above stated position, should that become necessary. No arguments are waived and none of the Examiner's statements are conceded.

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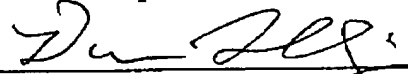
It is believed that no additional fees or charges are currently due beyond the fee for one additional independent claim to be charged to the credit card as noted by the enclosed authorization. However, in the event that any additional fees or charges are required for entrance of the accompanying amendment, they may be charged to Applicant's representatives Deposit Account No. 50-3649. In addition, please credit any overpayments related to any fees paid in connection with the accompanying amendment to Deposit Account No. 50-3649.

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In view of the above, it is respectfully submitted that the present application is in condition for allowance, and a Notice of Allowance is earnestly solicited.

Respectfully submitted,

By   
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September 5, 2006

Enclosure: New Abstract  
Authorization to charge credit card \$200 for one  
independent claim in excess of eight already paid  
(nine total)

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NEW ABSTRACT

Transceivers for use in time division telecommunication units in a transmitting mode, include switching a direct digital synthesizer (DDS) driven phase locked loop (PLL) into a modulating state and supplying a modulation signal to the DDS and switching in the PLL a first filter, thus allowing the generation of an improved modulated signal. In a receiving mode, the DDS driven PLL is switched into an oscillating state including supplying a non-modulation signal to the DDS and switching in the PLL a second filter, thus allowing demodulation with reduced phase noise. A transmitter part and a non-transmitter part share a single DDS driven PLL.